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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/784,376

02/23/2004

Arvind Sundararajan

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EXAMINER

PATEL, MANGLESH M

ART UNIT

PAPER NUMBER

2178

MAIL DATE

DELIVERY MODE

06/23/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/784,376	Applicant(s) SUNDARARAJAN ET AL.	
	Examiner MANGLESH M. PATEL	Art Unit 2178	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 March 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11,13-15,17-19,21 and 22 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 11,13-15,17-19,21 and 22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This **FINAL** action is responsive to the response filed on 3/24/2008.
2. Claims 11, 13-15, 17-19 and 21-22 are pending. Claims 12, 16 and 20 are canceled. Claims 11, 15 and 19 are the independent claims.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 11, 13-15, 17-19 and 21-22 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Darugar (U.S. Pub 2003/0018661, filed Jul 18, 2002 with provisional date of Jul 19, 2001) in view of Vedula (U.S. 6,823,495, filed Sep 14, 2000).

Regarding Independent claims 11, 15 and 19, A computer-implemented method comprising: converting first XML data into second XML data having a different shape; and converting the second XML data to JAVA data; wherein the second XML data has the same shape as the Java data, such that the second XML data and Java data are laid out and structured in the same way.

Darugar teaches converting from a first XML format to a second XML format using an interface to associate elements (See abstract). The claims describe a mapping function by defining transformation between formats as indicated by shapes. In paragraph 43 Darugar describes the mapping shown in fig 4 from a XML format to a target XML format. Furthermore he suggests that Java code can be incorporated into the mapping via a graphical development environment (paragraphs 6-10 & 31-33). Therefore a skilled artisan would easily be able to use the teachings of Darugar to include transformations between XML and Java by graphical mapping. Although Darugar describes mapping that includes converting from a first to a second XML data and then suggesting the use of java with the invention for further mappings, he fails to explicitly describe the different shapes. Instead Vedula also describes the use of a graphical mapping tool to map from one XML format to another XML format (see abstract). Vedula further shows in fig 5

wherein the mapping includes different shapes as represented in numeral 16b. **Thus both Darugar and Vedula teaches the conversion from a first XML data into a second XML data which is conversion from XML to an intermediate representation Darugar further suggests the use of Java for the mappings. Vedula for example shows in figure 1 numeral 18a as first XML data being converted to a second XML data represented in an intermediate representation numeral 16b having a different shape which is then converted to another format 18a thereby having the same structure and layout as the intermediate format thereby representing same structure but in different formats. At the time of the invention it would have been obvious for the skilled artisan to have implemented the mapping of XML to Java taught by Darugar into the teachings of Vedula. The motivation for doing so would have been to allow the graphical mapping between Java and XML objects thereby saving time from coding.**

Regarding Dependent claims 13, 17 and 21, wherein XQuery is used to convert the first XML data to the second XML data.

Darugar in paragraph 31 describes that “ an interface can allow a user to enter, for example, a SQL statement with placeholders as a query to a database.” Therefore he suggests that the mapping tool includes querying of data from a database to perform the graphical mappings. The skilled artisan would easily see that the mapping tool not only allows mapping from XML format to another XML format but supports JAVA mappings and allows query instructions to allow mapping between databases in different source and target formats.

Regarding Dependent claims 14, 18 and 22, wherein a query engine converts the second XML data into the Java data.

Darugar in paragraph 31 describes that “ an interface can allow a user to enter, for example, a SQL statement with placeholders as a query to a database.” Therefore he suggests that the mapping tool includes querying of data from a database to perform the graphical mappings. Hence to retrieve data from a database includes querying which includes a query engine to extract such data from a database so that it could be mapped between source and target formats has described by Darugar. The skilled artisan would easily see that the mapping tool not only allows mapping from XML format to another XML format but supports JAVA mappings and allows query instructions to allow mapping between databases in different source and target formats.

It is noted that any citation [[s]] to specific, pages, columns, lines, or figures in the prior art references and any interpretation of the references should not be considered to be limiting in any way. A reference is relevant for all it contains and may be relied upon for all that it would have reasonably suggested to one having ordinary skill in the art. [[See, MPEP 2123]]

Response to Arguments

5. Applicant arguments filed 3/24/2008 have been fully considered but are not persuasive.
- Applicant Argues: “Claims 11, 15 and 19 have been amended to include the feature that the second XML data has the same shape as the java data, such that the second XML data and Java data are laid out and structured in the same way”.
- This feature is not known or made obvious by the cited reference.

The Examiner respectfully disagrees: Applicants specification paragraph 19 describes conversion to an intermediate representation such representing a default XML shape. Vedula for example shows in figure 1 numeral 18a as first XML data being converted to a second XML data represented in an intermediate representation numeral 16b having a different shape which is then converted to another format 18a thereby having the same structure and layout as the intermediate format thereby representing same structure but in different formats.

Conclusion

Reference Cited

6. The art made of record and not relied upon is considered pertinent to applicant's disclosure.
- Fry et al. (U.S. Pub 2003/0163603) discloses “System And Method For XML Data Binding”
 - Beisiegel et al. (U.S. Pub 2004/0168124) discloses “System And Method Of Mapping Between Software Objects & Structured Language Element-Based Documents”
 - Helgeson et al. (U.S. 6,643,652) discloses “Method And Apparatus For Managing Data Exchange Among Systems In A Network”
7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manglesh M. Patel whose telephone number is (571) 272-5937. The examiner can normally be reached on M, W 6 am-3 pm T, TH 6 am-2pm, Fr 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen S. Hong can be reached on (571) 272-4124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Manglesh M. Patel
Patent Examiner (AU 2178)
June 17, 2008

/Manglesh M Patel/
Manglesh Patel
Examiner, Art Unit 2178

	/CESAR B PAULA/ Primary Examiner, Art Unit 2178
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